



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: June 20, 2016

Re: Public Hearing for Reconstruction of Runway 13-31 and Taxiway B Turnarounds, Installation of Runway Lighting, Directional Signage and Runway Markings at the Columbia Regional Airport

Executive Summary

Public hearing for the reconstruction of Runway 13-31 (5,500' x 100') and Taxiway B turnarounds at each runway end, installation of medium intensity runway lighting, directional signage, and pavement centerline and runway markings at the Columbia Regional Airport.

Discussion

Columbia Regional Airport's paved airfield surfaces total nearly 1.3 million square feet with pavements ranging from excellent to poor condition. The runway and taxiway pavements are nearly 50 years old, dating back to initial airport development in the late 1960's. A Pavement Condition Index inspection was performed in 2008 to identify which pavements needed to be rehabilitated. Runway 13-31, which serves as the cross-wind for the airport, was identified and recommended for replacement.

Improvements to Runway 13-31 are necessary to accommodate increased load factors of existing narrow body transports and large cabin business jets during a future closure of the primary Runway 2-20 for rehabilitation, reconstruction and extension. The current length and width of Runway 13-31 is 4,400' x 75'. The proposed improvements include replacing the current asphalt with concrete, lengthening and widening the runway to 5,500' x 100', installation of medium intensity runway lighting, directional signage and pavement centerline and runway markings. The additional runway length, shifting to the east, will relocate the Runway Safety Area beyond the existing alignment of Rangeline Road. Construction to realign Rangeline Road is underway and is expected to be completed in July 2016.

The estimated cost for this improvement is \$16,218,797.00. The Federal Aviation Administration (FAA) will reimburse the City 90%, or \$14,596,917.00. The City's local match is 10% or \$1,621,880.00, to be paid from Transportation Sales Tax funds. Although the FAA requires that Purchasing bid the improvement as one project, it will be broken out into two separate FAA grants and constructed in two phases (Bid Schedule 1 estimated to cost \$10,193,801.00, and Bid Schedule 2 estimated to cost \$6,024,996). Funds in the amount of \$8,134,920 have been appropriated to date for Bid Schedule 1, and construction is expected to begin in March of 2017.



The City of Columbia entered into a professional engineering services agreement with Burns and McDonnell Engineering Company, Inc., in December of 2015, for the design of the reconstruction project, and to prepare bid documents.

Fiscal Impact

Short-Term Impact: The Runway 13-31 reconstruction project is estimated to cost \$16,218,797.00. The project will be constructed in two phases (Bid Schedule 1 and Bid Schedule 2). The cost estimate for Bid Schedule 1 is \$10,193,801.00. Funds in the amount of \$8,134,920 have been appropriated to date for Bid Schedule 1.

Long-Term Impact: Bid Schedule 2 is estimated to cost \$6,024,996.00 and funds will be appropriated at a later date.

Vision & Strategic Plan Impact

Vision Impacts:

Primary Impact: Transportation, Secondary Impact: Economic Development, Tertiary Impact: Not Applicable

Strategic Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

Comprehensive Plan Impacts:

Primary Impact: Mobility, Connectivity, and Accessibility, Secondary Impact: Infrastructure, Tertiary Impact: Not Applicable

Legislative History

Date	Action
06/06/2016	B140-16 -Authorizing a bid call through Purchasing for reconstruction of Runway 13-31 and Taxiway B turnarounds at COU
05/18/2016	R52-16 -Setting a public hearing for 6/20/16 for Reconstruction of Runway 13-31 and Taxiway B Turnarounds at COU
12/21/2015	R196-15 -Authorizing an agreement with Burns & McDonnell Engineering Company, Inc. for design phase services related to reconstruction and extension of Runway 13-31 (5,500 x 100') and partial reconstruction of Taxiway B for Bid Schedule 1 (FAA Grant #40) and Bid Schedule 2 (FAA Grant#44)
12/21/2015	O22687 -Appropriating grant funds to be received from the FAA for the Runway 13-31 (5,500' x 100') and partial reconstruction of



08/03/2015	Taxiway B Design and Bid Schedule I Construction Project (FAA Grant #40) R126-15 -Authorizing an agreement with Burns & McDonnell Engineering Company, Inc. for the realignment of Rangeline Road as part of the reconstruction of Runway 13-31 and Taxiway B at COU (FAA Grant #37)
07/20/2015	O22517 -Appropriating FAA grant funds and transportation sales tax funds for costs relating to construction phase services for the reconstruction of Runway 13-31 (Phase II) and Taxiway B at the Intersection with Runway 20 (FAA Grant #39)
7/06/2015	R112-15 -Authorizing an agreement with Burns & McDonnell for construction phase services (Phase II) for reconstruction of Runway 13-31 and Taxiway B at its intersection with Runway 20 (FAA Grant #39)
05/04/2015	O22420 -Authorizing a bid call through Purchasing for reconstruction of Runway 13-31 (Phase II), and Taxiway B at the Intersection with Runway 20 (Grant #39)
04/06/2015	R54-15 -Setting a Public Hearing for May 4, 2015 for reconstruction of Runway 13-31 & Taxiway B at its intersection with Runway 20 (Phase II) (FAA Grant #39)
12/16/2013	R265-13 -Authorizing an agreement with Burns & McDonnell for design phase services (Phase I) related to the reconstruction of Runway 13-31 and Taxiway B at its intersection with Runway 20 and Taxiway B (FAA Grant #36)

Suggested Council Action

After public input and council discussion, authorize the bid call through Purchasing for reconstruction of Runway 13-31 (5,500' x 100') and Taxiway B turnarounds at each runway end, installation of medium intensity runway lighting, directional signage, and pavement centerline and runway markings, at the Columbia Regional Airport.